Common Core Standards - Resource Page

The resources below have been created to assist teachers' understanding and to aid instruction of this standard.

Domain	**Standard:** S.ID.6a - Fit a function to the data; use functions fitted to data to solve problems in the context of the data. Use given functions or choose a function suggested by the context. Emphasize linear, quadratic, and exponential models. *(Modeling Standard)
Interpreting Categorical and Quantitative Data **Summarize, represent, and interpret data on two categorical and quantitative variables**	Questions to Focus Learning How can the relationship between two quantitative variables be described? Mathematical functions can describe the relationship between two quantitative variables. Student Friendly Objectives *Reasoning Targets* I can describe the relationship between two variables in a scatterplot. I can use a function to solve problems in the context of the data. *Product Targets* I can represent data on a scatterplot. I can create a linear, quadratic, or exponential function to model the relationship between two variables. Vocabulary dependent variable exponential function function independent variable linear function quadratic function regression scatterplot

	Teacher Tips **UNIT 3** Building on work in Grade 8, students take a more sophisticated look at using functions to model the relationship between two numerical variables. In addition to fitting a line or curve to data, students assess how well the model fits by analyzing residuals. Limit to linear relationships. **UNIT 5** Extend work in Unit 3 to include informally fitting quadratic and exponential models to data. Vertical Progression S.ID.6b - Informally assess the fit of a function by plotting and analyzing residuals. *(Modeling Standard) S.ID.6c - Fit a linear function for a scatter plot that suggests a linear association. *(Modeling Standard) S.ID.7 - Interpret the slope (rate of change) and the intercept (constant term) of a linear model in the context of the data. *(Modeling Standard) S.ID.8 - Compute (using technology) and interpret the correlation coefficient of a linear fit. *(Modeling Standard) S.ID.9 - Distinguish between correlation and causation. *(Modeling Standard)

The above information and more can be accessed for free on the Wiki-Teacher website.
Direct link for this standard: S.ID.6a